

ATTY. DOCKET NO.  
2198.0100001 (as amended)

APPLICATION NO.  
9/923,398

FIRST NAMED INVENTOR  
Hansong Zhang

FILING DATE  
August 8, 2001

ART UNIT  
2671

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1					
	AB1					
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JUN 18 2001

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1					Yes No
	AM1					Yes No
	AN1					Yes No
	AO1					Yes No
	AP1					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PV	AR	1	Cabral, B., et al., "Bidirectional Reflection Function from Surface Bump Maps," <i>Computer Graphics Proceedings, Annual Conference Series - SIGGRAPH '87</i> 21(4):273-281, Association for Computing Machinery, New York (July 1987).
PV	AS	1	Cohen-Or, D. and Shaked, A., "Visibility and Dead-Zones in Digital Terrain Maps," <i>Eurographics 95</i> , 14(3):171-180, Blackwell Publishers (1995).
PV	AT	1	Crocetta, L., et al., "Visibility in Digital Terrain Maps: A Fuzzy Approach," <i>14<sup>th</sup> Spring Conference on Computer Graphics</i> , pp. 257-266, Comenius University, Bratislava, Slovakia (April 1998).

EXAMINER

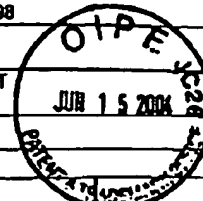
P. Nguyen

DATE CONSIDERED

9/18/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449  <b>INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 2188.0100001 (as amended) FIRST NAMED INVENTOR Hansong Zhang FILING DATE August 8, 2001	APPLICATION NO. 99/923,398 ART UNIT 2671
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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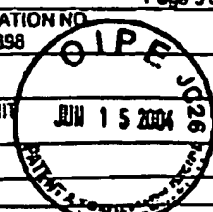
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

PN	AR	2	De Florian, L. and Magillo, P., "Algorithms for Visibility Computation on Digital Terrain Models," <i>Proceedings ACM Symposium on Applied Computing '93</i> , pp. 380-387, Association for Computing Machinery, New York (February 1993).
PN	AS	2	De Florian, L. and Magillo, P., "Computing Visibility Maps on a Digital Terrain Model," <i>Spatial Information Theory - A Theoretical Basis for GIS</i> , pp. 248-269, Springer-Verlag, Berlin, Germany (1993).
PN	AT	2	De Florian, L. and Magillo, P., "Visibility Algorithms on Triangulated Digital Terrain Models," <i>International Journal of Geographic Information Systems</i> 8(1):13-41, Taylor & Francis Ltd., London, England (January-February 1994).

EXAMINER <i>P. Nguyen</i>	DATE CONSIDERED <i>9/8/05</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2198.0100001 (as amended)	APPLICATION NO. 09/923,358
	FIRST NAMED INVENTOR Hansong Zhang	
	FILING DATE August 8, 2001	ART UNIT 2571



U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AP3						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PN	AR	3	De Florian, L. and Magillo, P., "Horizon Computation on a Hierarchical Triangulated Terrain Model," <i>The Visual Computer</i> 11(3):134-149, Springer-Verlag (1995).				
PN	AS	3	Greene, N., et al., "Hierarchical Z-Buffer Visibility," <i>Computer Graphics Proceedings, Annual Conference Series - SIGGRAPH 93</i> , pp. 231-238, Association for Computing Machinery, New York (August 1993).				
PN	AT	3	Lee, C.-H. and Shin, Y.G., "An Efficient Ray Tracing Method for Terrain Rendering," <i>Pacific Graphics '95</i> , pp. 180-193 (August 1995).				

EXAMINER

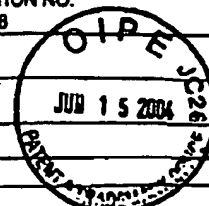
P. Nguyen

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9/18/05

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FORM PTO-1449  <b>INFORMATION DISCLOSURE STATEMENT</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">           ATTY. DOCKET NO.            2198.0100001 (as amended)            FIRST NAMED INVENTOR            Hansong Zhang            FILING DATE            August 8, 2001         </td> <td style="width: 40%;">           APPLICATION NO.            09/923,398            ART UNIT            2671         </td> </tr> </table>	ATTY. DOCKET NO. 2198.0100001 (as amended) FIRST NAMED INVENTOR Hansong Zhang FILING DATE August 8, 2001	APPLICATION NO. 09/923,398 ART UNIT 2671
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	AO4						Yes
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	AP4						Yes
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

PN	AR	1	Max, Nelson L., "Shadows for Bump-Mapped Surfaces," <i>Advanced Computer Graphics - Proceedings of Computer Graphics Tokyo '86</i> , pp.144-156, Springer-Verlag, (1986).
PN	AS	1	Max, Nelson L., "Horizon Mapping: Shadows for Bump-Mapped Surfaces," <i>The Visual Computer</i> 4(2):109-117, Springer-Verlag, Berlin, Germany (July 1988).
PN	AT	1	Stewart, A. James, "Hierarchical Visibility in Terrains," <i>Eurographics Rendering Workshop</i> 1997, pp. 217-228, Springer, Vienna, Austria (1997).

EXAMINER	DATE CONSIDERED
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*P. Nguyen*

*9/18/05*

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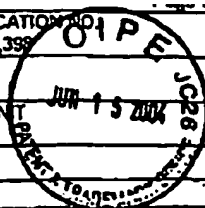
FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
2198.0100001 (as amended)  
FIRST NAMED INVENTOR  
Hansong Zhang  
FILING DATE  
August 8, 2001

APPLICATION NO.

9/823,398

ART UNIT  
2671

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

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	AO5						Yes
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	AP5						Yes
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PN	AR	5	Stewart, James A., "Fast Horizon Computation at All Points of a Terrain With Visibility and Shading Applications," <i>IEEE Transactions on Visualization and Computer Graphics</i> 4(1):82-93, IEEE (January-March 1998).				
PN	AS	5	Teller, S.J. and Sequin, C.H., "Visibility Preprocessing For Interactive Walkthroughs," <i>Computer Graphics Proceedings, Annual Conference Series - SIGGRAPH '91</i> 25(4):61-69, Association for Computing Machinery SIGGRAPH (July 1991).				
PN	AT	5	Trobec, T. et al., "Calculation of Visibility from Raster Relief Models," <i>14<sup>th</sup> Spring Conference on Computer Graphics</i> , pp. 257-266, Comenius University, Bratislava, Slovakia (April 1998).				

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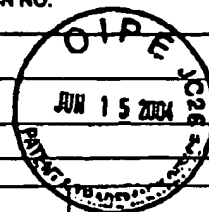
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	FIRST NAMED INVENTOR Hansong Zhang	ART UNIT 2671
FILING DATE August 8, 2001		



U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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							No
	AP6						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PV	AR	6	Zhang, H. et al., "Visibility Culling Using Hierarchical Occlusion Maps," Computer Graphics Proceedings, Annual Conference Series - SIGGRAPH '97, pp. 77-88 (August 1997).
	AS	6	
	AT	6	

EXAMINER P. Nguyen DATE CONSIDERED 9/18/05

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